Journal of Vibration and Acoustics

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: TB indicates Technical Brief, E indicates Errata, and D indicates Discussion.

Agrawal, Om P. — Analytical Solution for Stochastic Response of a Fractionally Damped Beam. **126,** 572–577

Ahmadian, Mehdi, Song, Xubin, and Southward, Steve C. — No-Jerk Skyhook Control Methods for Semiactive Suspensions. **126,** 534–538

Ahn, Young Kong, Ha, Jong-Yong, and Yang, Bo-Suk — A New Type Controllable Squeeze Film Damper Using an Electromagnet. **126,** 380–383

Amandolèse, Xavier, Hémon, Pascal, and Regardin, Clotilde — An Experimental Study of the Acoustic Oscillations by Flows Over Cavities. **126,** 190–195

Amraoui, M. Y., and Lieven, N. A. J. — Laser Vibrometry Based Detection of Delaminations in Glass/Epoxy Composites. **126,** 430–437

Aoshima, Nobuharu — (see Yabuno, Hiroshi) **126,** 149–162

Arkkio, Antero — (see Holopainen, Timo P.) **126,** 384–390

Astashev, V. K., Author, Babitsky, V. I., Author, Kolovsky, M. Z., Author, and Nielsen, Søren R. K., Reviewer — Dynamics and Control of Machines. **126,** 317–320(BR)

Babitsky, V. I., Author — (see Astashev, V. K., Author) **126,** 317–320(BR)

Bai, Mingsian R. — Optimal Implementation of Miniature Piezoelectric Panel Speakers Using the Taguchi Method and Genetic Algorithm. **126,** 359–369

——, **and Kuo, Jihting** — Optimal Design and Implementation of an Omnidirectional Panel Speaker Array Using the Genetic Algorithm. **126,** 564–571

Batzer, Steve — (see Guo, Anping) **126,** 126–131

Beran, Philip — (see Mortara, Sean A.) **126,** 416–421

Bergman, Larry — Foreword. **126,** 325

Bergman, Lawrence — (see Vakakis, Alexander F.) **126,** 235–244

Bergman, Editor, Larry — Editorial. **126,** 1(ED)

Bhardwaj, N. — (see Gupta, A. P.) **126,** 132–140

Biondi, Bruno, Muscolino, Giuseppe, and Sidoti, Anna — Methods for Calculating Bending Moment and Shear Force in the Moving Mass Problem. **126,** 553–563

Bountis, Tassos — (see Panagopoulos, Panagiotis) **126,** 520–527

Brei, Diann E. — (see Ervin, James D.) **126,** 37–46

Chai, W. K. — (see Tzou, H. S.) **126,** 284–297

Chan, Tommy H. T. — (see Yu, Ling) **126,** 17–26

Chang, R. J., and Lin, S. J. — Statistical Linearization Model for the Response Prediction of Nonlinear Stochastic Systems Through Information Closure Method. **126,** 438–448

Chao, Paul C.-P., Huang, Jeng-Sheng, and Chin, Chi-Wei — Optimal Profile Design for the Resonator Beam of an Ultrasonic Motor via Finite Element Modeling and Taguchi Methodology. **126,** 465–475

Chelidze, David, and Cusumano, Joseph P. — A Dynamical Systems Approach to Failure Prognosis. **126,** 2–8

Chen, Jen-San, Hua, Chin-Yi, and Sun, Chia-Min — On the Secondary Resonance of a Spinning Disk Under Space-Fixed Excitations. **126,** 422–429

——, **and Lin, Jian-San** — Dynamic Snap-Through of a Shallow Arch Under a Moving Point Load. **126,** 514–519

Chen, Li-Qun, and Zu, Jean W. — Energetics and Conserved Functional of Axially Moving Materials Undergoing Transverse Nonlinear Vibration. **126,** 452–455(TB)

Chen, Lien-Wen — (see Wang, Horng-Jou) **126,** 407–415

Chen, Ping — (see Sun, Qiao) **126,** 307–316

Chen, S. H. — (see Liu, Z. S.) **126,** 456–458(TB)

Chen, Tianning — (see Mao, Kuanmin) **126,** 202–211

—— (see Xu, Zhiwei) **126,** 141–148

Chen, Yong — An Investigation of Excitation Method for Torsional Testing of a Large-Scale Steam Turbine Generator. **126,** 163–167(TB)

Chin, Chi-Wei — (see Chao, Paul C.-P.) **126,** 465–475

Choi, Seung-Bok, and Hong, Sung-Ryong — Dynamic Modeling and Vibration Control of Electrorheological Mounts. **126,** 548–552

Cooper, Jonathan E. — (see Naylor, Steven) **126,** 298–306

Cunefare, Kenneth A. — (see Larson, Gregg D.) **126,** 278–283

Cusumano, Joseph P. — (see Chelidze, David) **126,** 2–8

Dai, Hui-Hui — (see Wang, Yue-Sheng) **126,** 108–117

Dattaguru, B. — (see Sarkar, Sunetra) **126,** 92–100

Davis, Wyatt O., O'Reilly, Oliver M., and Pisano, Albert P. — On the Nonlinear Dynamics of Tether Suspensions for MEMS. **126,** 326–331

Dhar, Deepak, Sharan, A. M., and Rao, J. S. — Transient Stress Analysis and Fatigue Life Estimation of Turbine Blades. **126,** 485–495

Ding, J. H. — (see Tzou, H. S.) **126,** 47–53

Dowell, Earl H. — (see Tang, Deman) **126,** 496–513

Elbeyli, O., and Sun, J. Q. — Covariance Control of Nonlinear Dynamic Systems via Exact Stationary Probability Density Function. **126,** 71–76

Ervin, James D., and Brei, Diann E. — Dynamic Behavior of Piezoelectric Recurve Actuation Architectures. **126,** 37–46

Feeny, Brian F. — (see Liang, Jin-Wei) **126,** 118–125

Franchek, Matthew — (see Hu, Shuiqing) **126,** 343–351

Fyfe, Ken R. — (see Lin, Jing) **126,** 9–16

Gendelman, Oleg — (see Vakakis, Alexander F.) **126,** 235–244

Genta, Giancarlo — On a Persistent Misunderstanding of the Role of Hysteretic Damping in Rotordynamics. **126,** 459–461(TB)

Gmür, Thomas — (see Schorderet, Alain) **126,** 253–259

Gosavi, S. V., and Kelkar, A. G. — Modelling, Identification, and Passivity-Based Robust Control of Piezo-actuated Flexible Beam. **126,** 260–271

Guo, Anping, and Batzer, Steve — Substructure Analysis of a Flexible System Contact-Impact Event. **126,** 126–131

Gupta, A. P., and Bhardwaj, N. — Vibration of Rectangular Orthotropic Elliptic Plates of Quadratically Varying Thickness Resting on Elastic Foundation. **126,** 132–140

Ha, Jong-Yong — (see Ahn, Young Kong) **126,** 380–383
Hamidzadeh, H. R. — (see Vaziri, A.) **126,** 84–91
Hémon, Pascal — (see Amandolèse, Xavier) **126,** 190–195
Holopainen, Timo P., Tenhunen, Asmo, Lantto, Erkki, and Arkkio, Antero — Numerical Identification of Electromagnetic Force Parameters for Linearized Rotordynamic Model of Cage Induction Motors. **126,** 384–390
Hong, Sung-Ryong — (see Choi, Seung-Bok) **126,** 548–552
Howell, Stephen — (see Hu, Shuiqing) **126,** 343–351
Hsu, Yu-Hsiang, and Lee, Chih-Kung — On the Autonomous Gain and Phase Tailoring Transfer Functions of Symmetrically Distributed Piezoelectric Sensors. **126,** 539–547
Hu, Shuiqing, Howell, Stephen, Raman, Arvind, Reifenberger, Ron, and Franchek, Matthew — Frequency Domain Identification of Tip-sample van der Waals Interactions in Resonant Atomic Force Microcantilevers. **126,** 343–351
Hua, Chin-Yi — (see Chen, Jen-San) **126,** 422–429
Huang, C. — (see Liu, Z. S.) **126,** 456–458(TB)
Huang, Jeng-Sheng — (see Chao, Paul C.-P.) **126,** 465–475

Ichchou, M. N. — (see Sui, F.) **126,** 184–189
Inman, D. J. — (see Starek, L.) **126,** 212–219
Inoue, Tsuyoshi — (see Ishida, Yukio) **126,** 476–484
Ishida, Yukio, and Inoue, Tsuyoshi — Internal Resonance Phenomena of the Jeffcott Rotor With Nonlinear Spring Characteristics. **126,** 476–484

Jezequel, Louis — (see Sinou, Jean-Jacques) **126,** 101–107
Jin, Weiwei, Qu, Zhihua, and Lin, Kuo-Chi — Design and Simulation of Robust and Adaptive Controls for a Nonlinear String System. **126,** 54–62

Kahraman, A. — (see Kubur, M.) **126,** 398–406
Kawazoe, Jun — (see Yabuno, Hiroshi) **126,** 149–162
Kelkar, A. G. — (see Gosavi, S. V.) **126,** 260–271
Kienzle, K. — (see Kubur, M.) **126,** 398–406
Kirk, R. Gordon — Lund's Elliptic Orbit Forced Response Analysis: The Keystone of Modern Rotating Machinery Analysis [ASME J. Vib. & Acous., 125, No. 4 pp. 455–461]. **126,** 322(E)
Ko, J. M. — (see Ni, Y. Q.) **126,** 245–252
Kolovsky, M. Z., Author — (see Astashev, V. K., Author) **126,** 317–320(BR)
Krylov, Slava, and Maimon, Ronen — Pull-in Dynamics of an Elastic Beam Actuated by Continuously Distributed Electrostatic Force. **126,** 332–342
Kubur, M., Kahraman, A., Zini, D. M., and Kienzle, K. — Dynamic Analysis of a Multi-Shaft Helical Gear Transmission by Finite Elements: Model and Experiment. **126,** 398–406
Kuo, Jihting — (see Bai, Mingsian R.) **126,** 564–571

Lantto, Erkki — (see Holopainen, Timo P.) **126,** 384–390
Larson, Gregg D., and Cunefare, Kenneth A. — Quarter-Cycle Switching Control for Switch-Shunted Dampers. **126,** 278–283
Lee, Chih-Kung — (see Hsu, Yu-Hsiang) **126,** 539–547
Lee, H.-J. — (see Wang, D. W.) **126,** 63–70
Liang, Jin-Wei, and Feeny, Brian F. — Identifying Coulomb and Viscous Friction in Forced Dual-Damped Oscillators. **126,** 118–125
Liao, W. H. — (see Wu, C. J.) **126,** 196–201
Lieven, N. A. J. — (see Amraoui, M. Y.) **126,** 430–437
Lin, Fusheng, and Meng, Guang — Study on the Dynamics of a Rotor in a Maneuvering Aircraft [ASME J. Vib. & Acous., 125, No. 3, pp. 324–327]. **126,** 322–323(E)
Lin, Jian-San — (see Chen, Jen-San) **126,** 514–519
Lin, Jing, and Zuo, Ming J. — Extraction of Periodic Components for Gearbox Diagnosis Combining Wavelet Filtering and Cyclostationary Analysis. **126,** 449–451(TB)
———, Zuo, Ming J., and Fyfe, Ken R. — Mechanical Fault Detection Based on the Wavelet De-Noising Technique. **126,** 9–16
Lin, Kuo-Chi — (see Jin, Weiwei) **126,** 54–62
Lin, S. J. — (see Chang, R. J.) **126,** 438–448
Liu, Z. S., Song, D. T., Huang, C., Wang, D. J., and Chen, S. H. — Vibration Analysis of Non-Classically Damped Linear Systems. **126,** 456–458(TB)
Luo, Albert C. J., and Wang, Fei-Yue — Nonlinear Dynamics of a Micro-Electro-Mechanical System With Time-Varying Capacitors. **126,** 77–83

Maimon, Ronen — (see Krylov, Slava) **126,** 332–342
Malenovský, Eduard — Using the Modal and Trigonometric Collocation Methods in Rotor Dynamic Systems. **126,** 229–234
Manevitch, Leonid I. — (see Vakakis, Alexander F.) **126,** 235–244
Mao, Kuanmin, Wang, Michael Yu, Xu, Zhiwei, and Chen, Tianning — Simulation and Characterization of Particle Damping in Transient Vibrations. **126,** 202–211
McFarland, D. Michael — (see Vakakis, Alexander F.) **126,** 235–244
Meng, Guang — (see Lin, Fusheng) **126,** 322–323(E)
Minesugi, Kenji — (see Oh, Hyun-Ung) **126,** 272–277
Mortara, Sean A., Slater, Joseph, and Beran, Philip — Analysis of Nonlinear Aeroelastic Panel Response Using Proper Orthogonal Decomposition. **126,** 416–421
Murakami, Tomohiko — (see Yabuno, Hiroshi) **126,** 149–162
Muscolino, Giuseppe — (see Biondi, Bruno) **126,** 553–563

Naghshineh, Koorosh — (see Rozema, Randall) **126,** 352–358
Nayeb-Hashemi, H. — (see Vaziri, A.) **126,** 84–91
Naylor, Steven, Platten, Michael F., Wright, Jan R., and Cooper, Jonathan E. — Identification of Multi-Degree of Freedom Systems With Nonproportional Damping Using the Resonant Decay Method. **126,** 298–306
Ni, Y. Q., Zheng, G., and Ko, J. M. — Nonlinear Periodically Forced Vibration of Stay Cables. **126,** 245–252
Nielsen, Søren R. K., Reviewer — (see Astashev, V. K., Author) **126,** 317–320(BR)

Oh, Hyun-Ung, Onoda, Junjiro, and Minesugi, Kenji — Semiactive Isolator With Liquid-Crystal Type ER Fluid for Momentum-Wheel Vibration Isolation. **126,** 272–277
Onoda, Junjiro — (see Oh, Hyun-Ung) **126,** 272–277
O'Reilly, Oliver M. — (see Davis, Wyatt O.) **126,** 326–331

Panagopoulos, Panagiotis, Bountis, Tassos, and Skokos, Charalampos — Existence and Stability of Localized Oscillations in 1-Dimensional Lattices With Soft-Spring and Hard-Spring Potentials. **126,** 520–527
Park, Jung Seo, and Shen, I. Y. — Aerodynamically and Structurally Coupled Vibration of Multiple Co-Rotating Disks. **126,** 220–228
Pisano, Albert P. — (see Davis, Wyatt O.) **126,** 326–331
Platten, Michael F. — (see Naylor, Steven) **126,** 298–306
Poulin, Kevin C., and Vaicaitis, Rimas — Vibrations of Stiffened Composite Panels With Smart Materials. **126,** 370–379

Qu, L. S. — (see Shi, D. F.) **126,** 578–584
Qu, Zhihua — (see Jin, Weiwei) **126,** 54–62
Quinn, D. Dane — A New Regularization of Coulomb Friction. **126,** 391–397

Raman, Arvind — (see Hu, Shuiqing) **126,** 343–351
Rao, J. S. — (see Dhar, Deepak) **126,** 485–495
Regardin, Clotilde — (see Amandolèse, Xavier) **126,** 190–195
Reifenberger, Ron — (see Hu, Shuiqing) **126,** 343–351
Rozema, Randall, Zellers, Brian, Naghshineh, Koorosh, and Zahui, Marcellin — Development of a PVDF Sensor for the Measurement of the Acoustic Local Volume Displacement of Vibrating Beams. **126,** 352–358

Sarkar, Sunetra, Venkatraman, Kartik, and Dattaguru, B. — Dynamics of Flexible Structures With Nonlinear Joints. **126,** 92–100
Schorderet, Alain, and Gmür, Thomas — Structural Dynamics Optimization Based on a Hybrid Inverse Synthesis Method Using a Quadratic Approximation. **126,** 253–259
Sharan, A. M. — (see Dhar, Deepak) **126,** 485–495
Shen, I. Y. — (see Park, Jung Seo) **126,** 220–228
Shi, D. F., Wang, W. J., and Qu, L. S. — Defect Detection for Bearings Using Envelope Spectra of Wavelet Transform. **126,** 578–584
Sidoti, Anna — (see Biondi, Bruno) **126,** 553–563
Sinou, Jean-Jacques, Thouverez, Fabrice, and Jezequel, Louis — Application of a Nonlinear Modal Instability Approach to Brake Systems. **126,** 101–107
Skokos, Charalampos — (see Panagopoulos, Panagiotis) **126,** 520–527
Slater, Joseph — (see Mortara, Sean A.) **126,** 416–421
Song, D. T. — (see Liu, Z. S.) **126,** 456–458(TB)
Song, Xubin — (see Ahmadian, Mehdi) **126,** 534–538
Southward, Steve C. — (see Ahmadian, Mehdi) **126,** 534–538
Starek, L., and Inman, D. J. — Design of Nonproportional Damped Systems via Symmetric Positive Inverse Problems. **126,** 212–219
Suh, C. Steve — (see Yang, Baozhong) **126,** 528–533
Sui, F., and Ichchou, M. N. — Prediction of Time-Varying Vibroacoustic Energy Using a New Energy Approach. **126,** 184–189
Sun, Chia-Min — (see Chen, Jen-San) **126,** 422–429
Sun, J. Q. — (see Elbeyli, O.) **126,** 71–76
Sun, Qiao, Chen, Ping, Zhang, Dajun, and Xi, Fengfeng — Pattern Recognition for Automatic Machinery Fault Diagnosis. **126,** 307–316

Tang, Deman, and Dowell, Earl H. — Dynamic Analysis of a Protein-Ligand Molecular Chain Attached to an Atomic Force Microscope. **126,** 496–513
Tang, J., and Wang, K. W. — Vibration Confinement via Optimal Eigenvector Assignment and Piezoelectric Networks. **126,** 27–36
Tenhunen, Asmo — (see Holopainen, Timo P.) **126,** 384–390
Thouverez, Fabrice — (see Sinou, Jean-Jacques) **126,** 101–107
Tzou, H. S., Chai, W. K., and Wang, D. W. — Micro-Control Actions and Location Sensitivity of Actuator Patches Laminated on Toroidal Shells. **126,** 284–297
____, **and Ding, J. H.** — Distributed Modal Voltages of Nonlinear Paraboloidal Shells With Distributed Neurons. **126,** 47–53
____ (see Wang, D. W.) **126,** 63–70

Utsumi, M. — An Analytical Method for Expansion Chambers With Continuously Varying Cross-Sectional Area. **126,** 173–183

Vaicaitis, Rimas — (see Poulin, Kevin C.) **126,** 370–379
Vakakis, Alexander F., McFarland, D. Michael, Bergman, Lawrence, Manevitch, Leonid I., and Gendelman, Oleg — Isolated Resonance Captures and Resonance Capture Cascades Leading to Single- or Multi-Mode Passive Energy Pumping in Damped Coupled Oscillators. **126,** 235–244
Vaziri, A., Nayeb-Hashemi, H., and Hamidzadeh, H. R. — Experimental and Analytical Investigations of the Dynamic Response of Adhesively Bonded Single Lap Joints. **126,** 84–91
Venkatraman, Kartik — (see Sarkar, Sunetra) **126,** 92–100

Wang, D. J. — (see Liu, Z. S.) **126,** 456–458(TB)
Wang, D. W., Tzou, H. S., and Lee, H.-J. — Control of Nonlinear Electro/Elastic Beam and Plate Systems (Finite Element Formulation and Analysis). **126,** 63–70
____ (see Tzou, H. S.) **126,** 284–297
Wang, Fei-Yue — (see Luo, Albert C. J.) **126,** 77–83
Wang, Horng-Jou, and Chen, Lien-Wen — Axisymmetric Dynamic Stability of Rotating Sandwich Circular Plates. **126,** 407–415
Wang, K. W. — (see Tang, J.) **126,** 27–36
Wang, M. Y. — (see Wu, C. J.) **126,** 196–201
Wang, Michael Yu — (see Mao, Kuanmin) **126,** 202–211
____ (see Xu, Zhiwei) **126,** 141–148
Wang, W. J. — (see Shi, D. F.) **126,** 578–584
Wang, Yue-Sheng, Dai, Hui-Hui, and Yu, Gui-Lan — Nonlinear Interaction of an Elastic Pulse With a Frictional Contact Interface Between Two Anisotropic Dissimilar Media. **126,** 108–117
Wauer, Jörg — In-Plane Vibrations of a Thin Rotating Disk (Deshpande, M., and Mote, C.D., Jr., 2003, ASME J. Vibr. Acoust., **125**, No. 1, pp. 68–72). **126,** 321
Wright, Jan R. — (see Naylor, Steven) **126,** 298–306
Wu, C. J., Liao, W. H., and Wang, M. Y. — Modeling of Granular Particle Damping Using Multiphase Flow Theory of Gas-Particle. **126,** 196–201

Xi, Fengfeng — (see Sun, Qiao) **126,** 307–316
Xu, Zhiwei, Wang, Michael Yu, and Chen, Tianning — An Experimental Study of Particle Damping for Beams and Plates. **126,** 141–148
____ (see Mao, Kuanmin) **126,** 202–211

Yabuno, Hiroshi, Murakami, Tomohiko, Kawazoe, Jun, and Aoshima, Nobuharu — Suppression of Parametric Resonance in Cantilever Beam With a Pendulum (Effect of Static Friction at the Supporting Point of the Pendulum). **126,** 149–162
Yang, Baozhong, and Suh, C. Steve — On the Characteristics of Bifurcation and Nonlinear Dynamic Response. **126,** 528–533
Yang, Bo-Suk — (see Ahn, Young Kong) **126,** 380–383
Yu, Gui-Lan — (see Wang, Yue-Sheng) **126,** 108–117
Yu, Ling, and Chan, Tommy H. T. — Identification of Multi-Axle Vehicle Loads on Bridges. **126,** 17–26

Zahui, Marcellin — (see Rozema, Randall) **126,** 352–358
Zellers, Brian — (see Rozema, Randall) **126,** 352–358
Zhang, Dajun — (see Sun, Qiao) **126,** 307–316
Zheng, G. — (see Ni, Y. Q.) **126,** 245–252
Zini, D. M. — (see Kubur, M.) **126,** 398–406
Zu, Jean W. — (see Chen, Li-Qun) **126,** 452–455(TB)
Zuo, Ming J. — (see Lin, Jing) **126,** 9–16
____ (see Lin, Jing) **126,** 449–451(TB)